

SEQUENCE LISTING



<110> MUKHERJEE, RAMA  
JAGGI, MANU  
PRASAD, SUDHANAND  
BURMAN, ANAND C

<120> NOVEL PEPTIDE ANALOGS FOR THE TREATMENT OF CANCER

<130> U012104-2

<140> 09/248,382

<141> 1999-02-11

<150> 343/DEL/98

<151> 1998-02-11

<160> 29

<170> PatentIn Ver. 2.0

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<400> 1

Leu Met Tyr Pro Thr Tyr Leu Lys

1

5

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>

<221> MOD\_RES

<222> (1)

<223> /product = 2-amino-isobutyric acid/ label = Aib

<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 2  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 3  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>  
<221> MOD\_RES  
<222> (1)  
<223> /product = D-leucine/ label = D-Leu

B,  
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<221> MOD\_RES  
<222> (7)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 3  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 4  
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<213> Artificial Sequence

<220>  
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was synthetically generated.

<220>  
<221> MOD\_RES  
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<223> /product = D-tyrosine/ label = D-Tyr

<400> 4  
Leu Met Tyr Pro Thr Xaa Leu Lys  
1 5

<210> 5  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>  
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<223> /product = D-leucine/label = D-Leu

<400> 5  
Leu Met Tyr Pro Thr Tyr Xaa Lys  
1 5

B,  
<210> 6  
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<213> Artificial Sequence

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was synthetically generated.

<220>  
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<223> /product = D-tyrosine/label = D-Tyr

<220>  
<221> MOD\_RES  
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<400> 6  
Leu Met Xaa Pro Thr Tyr Xaa Lys  
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1 5

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<220>  
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<223> /product = cyclic and acyclic dialkylated  
glycine/label = Dxg

<400> 8  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 9  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>  
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<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = cyclic and acyclic dialkylated glycine/  
label = Dxg

B,  
<400> 9  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 10  
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<220>  
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was synthetically generated.

<220>  
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<223> /product = D-phenylalanine/label = D-Phe

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<223> /product = Leucine N-ethylamide/label = Leu-NHet

<400> 10  
Xaa Gln Trp Ala Val Gly His Xaa

1

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<210> 11  
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<212> PRT  
<213> Artificial Sequence

<220>  
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was synthetically generated.

<220>  
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<400> 11  
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<210> 12  
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<220>  
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<223> /product = D-phenylalanine/label = D-Phe

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<221> MOD\_RES  
<222> (6)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 12  
Xaa Gln Trp Ala Val Xaa His Leu  
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<211> 8

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<220>

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<221> MOD\_RES

<222> (4)

<223> /product = 2-amino-isobutyric acid/ label = Aib

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1

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<210> 14

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<400> 14

Xaa Gln Trp Ala Val Xaa His Leu

1

5

<210> 15

<211> 8

<212> PRT  
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was synthetically generated.

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<400> 15

Xaa Gln Trp Ala Val Gly His Ile

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<210> 16

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> /product = D-phenylalanine/label = D-Phe

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<221> MOD\_RES

<222> (4)

<223> /product = 2-amino-isobutyric acid/ label = Aib

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1

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<210> 17

<211> 8

<212> PRT

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was synthetically generated.

<220>

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<400> 17

Xaa Gln Trp Ala Val Xaa His Ile

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<210> 18

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<212> PRT

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<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<221> MOD\_RES

<222> (1)

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<223> /product = D-phenylalanine/label = D-Phe

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<221> MOD\_RES

<222> (7)

<223> /product = D-tryptophan/label = D-Trp

<220>

<221> MOD\_RES

<222> (9)

<223> /product = D-tryptophan/label = D-Trp

<400> 18

Xaa Pro Lys Pro Xaa Gln Xaa Phe Xaa Leu Leu

1

5

10

<210> 19  
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<212> PRT  
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<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<221> MOD\_RES

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<400> 19

Xaa Met Gln Trp Phe Xaa

1

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<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>

<221> MOD\_RES

<222> (1)

<223> /product = cyclic and acyclic dialkylated  
glycine/label = Dxg

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<221> MOD\_RES

<222> (6)

<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 20

Xaa Met Gln Trp Phe Xaa  
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<210> 21  
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<220>  
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was synthetically generated.

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<223> /product = 2-amino-isobutyric acid/ label = Aib

B.  
<400> 21  
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1 5

<210> 22  
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<220>  
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was synthetically generated.

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<220>  
<221> MOD\_RES  
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<223> /product = 2-amino-isobutyric acid/ label = Aib

<220>

<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

<220>  
<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

<220>  
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<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 22  
Xaa Pro Lys Pro Xaa Gln Xaa Phe Xaa Xaa Leu  
1 5 10

<210> 23  
<211> 11  
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<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated

<220>  
<221> MOD\_RES  
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<220>  
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<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = D-tryptophan/label = D-Trp

<220>  
<221> MOD\_RES  
<222> (9)  
<223> /product = D-tryptophan/label = D-Trp

<400> 23  
Arg Pro Xaa Pro Xaa Gln Xaa Phe Xaa Leu Leu  
1 5 10

<210> 24  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>  
<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

<220>  
<221> MOD\_RES  
<222> (3)..(14)  
<223> product - note: disulfide bridges: 3-14

<220>  
<221> MOD\_RES  
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<223> /product = D-cysteine/label = D-Cys

<400> 24  
Ala Gly Cys Lys Asn Phe Phe Xaa Lys Thr Phe Thr Ser Xaa  
1 5 10

<210> 25  
<211> 14  
<212> PRT  
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<220>  
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was synthetically generated.

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<223> /product = 2-amino-isobutyric acid/ label = Aib

<220>  
<221> MOD\_RES  
<222> (8)  
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<220>  
<221> MOD\_RES  
<222> (13)  
<223> /product = D-serine/label = D-Ser

<220>  
<221> MOD\_RES  
<222> (3)..(14)  
<223> product - note: disulfide bridges: 3-14

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Ala Xaa Cys Lys Asn Phe Phe Xaa Lys Thr Phe Thr Xaa Cys  
1 5 10

<210> 26  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<222> (1)  
<223> /product = D-phenylalanine/label = D-Phe

<220>  
<221> MOD\_RES  
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<220>  
<221> MOD\_RES  
<222> (5)  
<223> /product = Ornithine/label = Orn

<220>  
<221> MOD\_RES  
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<223> /product = Penicillamine/label = Pen

<400> 26

Xaa Cys Tyr Xaa Xaa Thr Xaa Thr

1

5

<210> 27

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>

<221> MOD\_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<220>

<221> MOD\_RES

<222> (4)

<223> /product = D-tryptophan/label = D-Trp

<220>

<221> MOD\_RES

<222> (7)

<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 27

Xaa Cys Tyr Xaa Lys Thr Xaa Thr

1

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<210> 28

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>

<221> MOD\_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<220>  
<221> MOD\_RES  
<222> (8)  
<223> /product = Isoleucine N-ethylamide/label =  
Ile-NHet

<400> 28  
Xaa Gln Trp Ala Val Gly His Xaa  
1 5

<210> 29  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

B.  
<220>  
<221> MOD\_RES  
<222> (1)  
<223> /product = D-phenylalanine/label = D-Phe

<220>  
<221> MOD\_RES  
<222> (3)  
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<220>  
<221> MOD\_RES  
<222> (8)  
<223> /product = Leucine N-ethylamide/label = Leu-NHet

<400> 29  
Xaa Gln Xaa Ala Val Gly His Xaa  
1 5